

FEDERAL AVIATION AGENCY

P-882
Revision 13
Beech
278

April 15, 1996

TYPE CERTIFICATE DATA SHEET NO. P-882

Propellers of models described herein conforming with these specifications and approved data on file with the Federal Aviation Agency are rated as airworthy for use in certificated aircraft in accordance with pertinent aircraft specifications and applicable portions of the Civil Air Regulations provided they are installed, operated, and maintained as prescribed by the manufacturer.

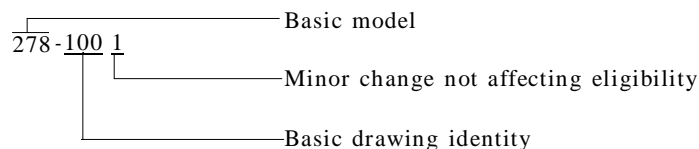
Type Certificate Holder	Raytheon Aircraft Company 9709 E. Central Wichita, KS 67201
Type	Constant speed; hydraulic (see NOTE 3)
Engine shaft	Special flange shaft, 4" diameter bolt circle
Hub material	Steel
Blade material	Aluminum alloy
Number of blades	2
Hub model eligible	278-100, 278-107 (see NOTE 1)

Blades Eligible (See Note 2)	Maximum Continuous		Takeoff		Diameter Limits	Approx. Max. Wt. Complete (for reference only) (See Notes 3 and 7)
	HP	RPM	HP	RPM		
277-207-91	240	2600	240	2600	91"	69 lbs.
278-207-88 to 278-207-82	240	2600	240	2600	88" - 82"	69 lbs.
278-208-82 to 278-208 81½	250	2600	250	2600	82" - 81½	69 lbs.
278-208-84 to 278-208-82	260	2625	260	2625	84" - 82"	69 lbs.
278-209-84 to 278-209-82	250	2600	250	2600	84" - 82"	73 lbs.
278-213-82	250	2600	250	2600	82"	73 lbs.
278-214-82	260	2625	260	2625	82"	69 lbs.

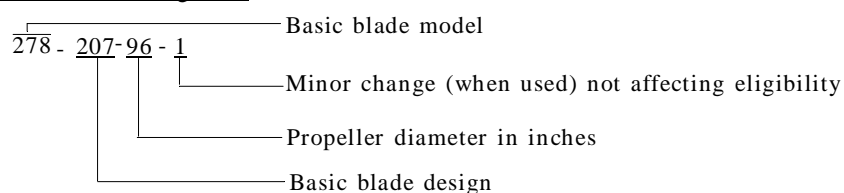
Certification basis	Type Certificate No. 882
Production basis	Production Certificate No. 501

NOTE 1.

Hub Model Designation



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NOTE 2. Blade Model DesignationNOTE 3. Pitch Control.

Applicable Blades	Governor	Governor Pressure*	Applicable Airplane
278-207-88 or 278-208-84	Woodward 210060 or Beech 278-220	500 p.s.i.	Beech 45 (T-34)
278-208-84	Woodward 210175 (thru "G" revision) or Woodward 210235	450 p.s.i.	Beech H-35
278-209-84	Woodward 210175 ("H" revision and later)	320 p.s.i.	Beech H-35
278-213-82 or 278-214-82	Woodward 210235	450 p.s.i.	Beech J-35

*Includes 50 p.s.i. inlet pressure.

Additional weight of governor 3-1/2 lbs.

NOTE 4. Feathering. Not applicableNOTE 5. Left-Hand Models. Not applicable.NOTE 6. Interchangeable Blades. Not applicable.NOTE 7. Accessories. Propeller is equipped with Model 278-205 spinner. Weight of spinner is included in approximate weight of propeller listed above. (Approximately 4 lbs. less if spinner is not used.)

NOTE 8. Not applicable.

NOTE 9. Table of Propeller-Engine CombinationsApproved Vibrationwise for Use on Single-Engine Tractor Aircraft

The maximum and minimum propeller diameters that can be used from a vibration standpoint are shown below. No reduction below the minimum diameter listed is permissible since this figure includes the diameter reduction allowable for repair purposes.

Blade Model	Engine Model	Max. Dia. (inches)	Min. Dia. (inches)	Placards
278-207-88	Continental 0-470-13	88	82	None
	0-470-13A			
278-208-82	Continental IO-470-C	82	81½	None
	IO-470-N			
278-214-82		82	82	None

Blade Model	Engine Model	Max. Dia. (inches)	Min. Dia. (inches)	Placards
278-208-84	Continental 0-470-13 { 0-470-13A 0-470-4	84	82	None
*278-208-84	Continental 0-470-G	84	83	None
*278-209-84	Continental 0-470-G	84	83	None

*Eligible only on Beech Model H35 airplane which was certificated under Part 410 of the Regulations of the Administrator.

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